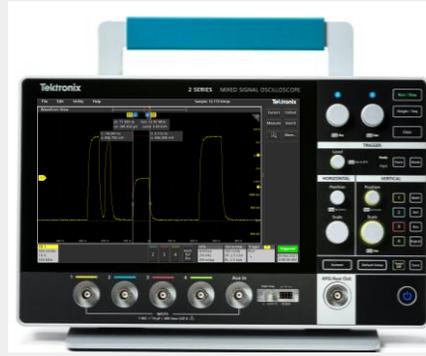# 2 Series MSO vs. Rohde & Schwarz RTB2000
COMPETITIVE FACT SHEET

Visualization & Usability

Tektronix 2 Series MSO

✓ 10.1-inch WXGA (1280 x 800) resolution display with touchscreen

✓ Touchscreen capabilities with intuitive control commands

✓ Ability to view multiple waveform slices in stacked mode

✓ Common user interface across the scope family

Rohde & Schwarz RTB2000

✓ 10.1-inch WXGA (1280 x 800) resolution display with touchscreen

✓ Touchscreen capabilities

✗ Waveform view is limited to one display window

✗ Different user interfaces across different models

Portability & Physical Characteristics

Tektronix 2 Series MSO

✓ **Battery:** Optional battery pack can power the instrument for up to 8 hours

✓ **Weight:** 4 lbs standalone and 8 lbs total with battery pack and two batteries

✓ **Footprint:** 8.26" x 13.54" x 1.59" (H x W x D) dimensions allows for more desk space

✓ **Flexibility:** VESA Mount allows for the scope to be positioned in many ways

Rohde & Schwarz RTB2000

✗ **Battery:** There is no battery support

✗ **Weight:** 5.5 lbs is heavier than the 2 Series MSO without the battery pack

✗ **Footprint:** 8.66" x 15.4" x 5.96" (H x W x D) dimensions takes up more space on the lab bench

✗ **Flexibility:** No VESA Mount

Key Specifications Comparison

		Tektronix 2 Series MSO		Rohde & Schwarz RTB2000
Analog Channels	✓	2, 4	✓	2, 4
Digital Channels	✓	16 (with option 2-MSO)	✓	16 (optional)
Bandwidth	✓	70, 100, 200, 350, 500 MHz	✗	70, 100, 200, 300 MHz
Max. Sample Rate	✓	1.25 GS/s (all channels on) 2.5 GS/s (half channels on)	✓	1.25 GS/s (all channels on) 2.5 GS/s (half channels on)
Max. Record Length (All channels on)	✓	10 M points	✓	10 M points
Maximum Input Voltage	✓	CATII 300 Vrms	✗	CATI 300 Vrms
Standard Trigger Types	✓	Edge, Pulse Width, Runt, Timeout, Logic, Setup & Hold, Rise/Fall Time, Parallel Bus	✓	Edge, Width, Video, Pattern, Serial Bus, Timeout, Line
Arbitrary Function Generator (AFG)	✓	1-channel, 50 MHz	✗	1-channel, 25 MHz
Digital Pattern Generator (DPG)	✓	4 channels, 4k memory length, up to 25 Mbps	✗	4 channels, 2048 memory length, up to 25MHz

2 Series MSO vs. Rohde & Schwarz RTB2000
COMPETITIVE FACT SHEET

Productivity

Tektronix 2 Series MSO

- ✓ **Help:** Shows graphical images and explanatory text to provide quick feature overviews. Application notes and more information available on website
- ✓ **Feature Control:** Allows disabling of autoset, cursors, and automated measurements
- ✓ **Front Panel:** Simplified front panel with LED color coded ring lights
- ✓ **Highly Customizable Software:** Change font sizes, colors, autoset, window sizes, and much more
- ✓ **PC Analysis:** Perform advanced analysis using TekScope™, with same UI as 2 Series

Rohde & Schwarz RTB2000

- ✗ Limited help features
- ✓ Password-protected education mode that disables functions like autoset
- ✗ Complex front panel with extraneous buttons on front panel
- ✗ Only ability to change language, no other customizability
- ✗ No comprehensive software to perform advanced analysis on PC

Measurement

Tektronix 2 Series MSO

- ✓ Display unlimited measurements either as measurement badge or collectively in a results table
- ✓ One set of cursors per display, can be enabled in any window simultaneously
- ✗ Perform serial protocol triggering and analysis on the most common buses (requires 2-SERIAL)
- ✓ Unlimited math waveforms and reference signals
- ✓ Gate both measurements and FFTs
- ✓ 37 automatic measurements
- ✓ Frequency Response Analysis (Bode plot, requires 2-SOURCE)

Rohde & Schwarz RTB2000

- ✗ Maximum of 4 active measurements at once
- ✗ One set of cursors
- ✗ Serial triggering and decoding available, requires multiple packages to unlock all
- ✗ Up to 5 math waveforms and up to 4 reference signals
- ✗ No measurement or FFT gating
- ✗ 32 automatic measurements
- ✗ Bode plot requires additional software option

Connectivity

Tektronix 2 Series MSO

- ✓ Two USB 2.0 HOST ports
- ✓ One USB DEVICE port
- ✓ Ethernet port for network connectivity
- ✓ TekDrive™ is natively integrated as a T&M collaborative data workspace that allows for seamless data access anywhere and much more

Rohde & Schwarz RTB2000

- ✗ One USB 2.0 HOST port
- ✓ One USB DEVICE port
- ✓ Ethernet port
- ✗ Web server functionality allows users to control and display their screen content to an audience